

MCHEDLISHVILI, Nataliya Dmitriyevna, kand. biol. nauk; DAVITASHVILI, L.Sh., red.; AVALIANI, N.M., red.izd-va; BOKERIYA, E.N., tekhn. red.

> [Flora and vegetation in the Cimmerian stage based on data from palynological analysis] Flora i rastitel'nost' kimmeriiskogo veka po dannym palinologicheskogo analiza. Tbilisi, Izd-vo AN Gruz. SSR, 1963. 196 p.
> (MIRA 16:12)

1. Deystvitel nyy chlen AN Gruz.SSR (for Davitashvili). (Palynology) (Paleobotamy, Stratigraphic)

DAVITASHVILI, L.Sh.

Partition of the second and services providing the second enterior self-and the beautiful and the second enterior self-and the partition of the second enterior self-and the second enterior s

Subdivision of the Miocone into stages and principles underlying it. Trudy Inst. paleobiol. AN Gruz. SSR 8:73-84. '63.

Significance of the problem of migration for paleobiology and historical geology. Ibid.:85-95 (MIRA 17:7)

DAVITASHVILI, L.Sh., akademik; ZAKHARIYEVA-KOVACHEVA, Kr.

Origin of the "Stone Forest" near Varna, Bulgaria. Soob. AN Gruz. SSR 30 no.4:441-446 Ap '63. (MIRA 17:9)

1. Institut paleobiologii AN GruzSSR, Tbilisi. 2. Akademiya nauk Gruzinskoy SSR (for Davitashvili).

DAVITASHVILI, L.Sh., prof.; ZAKHARIYEVA-KOVACHEVA, K.R.

Hystery of a "stone forest" in Bulgaria. Priroda 52 no.9:
(MIRA 16:11)
90-91 '63.

1. Institut paleobiologii AN GruzSSR (for Davitashvili).
2. Soflyskiy gosudarstvennyy universitet, kafedra paleontologii (for Zakhariyeva-Kovacheva).

SULTANOV, K.M.; DAVITASHVILI, L.Sb., akademik, red.

[Apsheronian stage in Azerbaijan] Apsheronskii iarus Azerbaidzhans. Baku, Azerbaidzhanskoe gos. izd-vo, 1964. 232 p. (MIRA 17:9)

1. Akademiya nauk Gruzinskoy SSR (for Pavitashvill).

GABUNIYA, Leo Kalistratovich; DAVITASHVILI, L.Sh., red.

[Fauna of Oligocene vertebrates in Benara] Benarskaia fauna oligotsenovykh pozvonochnykh. Tbilisi, Izd-vo
"Metsniereba," 1964. 265 p. (MIRA 18:4)

DAVI1	SHVILI, L.Sh.	
	What new information can paleoticlogical studies Sov. geol. 8 no.5:3-10 My '65.	provide for geology: (MIRA 18:7)
	1. Institut paleobiologii, Tbilisi.	
	9.4° 2	

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00050981

HAGDASARYAN, Klara Grigor'yevna, mlad. nauchn. sotr., kand.

geol.-miner. nauk; DAVITASHVILI, L.Sh., red.

[Development of Chokrak mollusks in Georgia] Razvitie

molliuskovoi fauny chokraka Gruzii. Tbilisi, Metsniereba,

(MIRA 18:7)

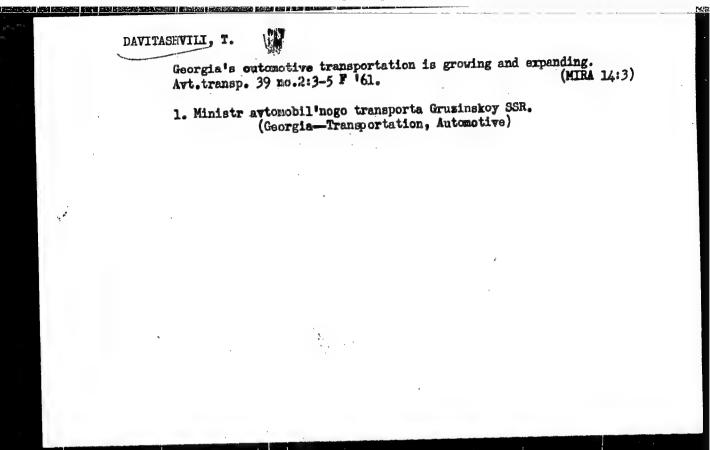
1. Institut paleobiologii AN Grus.SSR (for Bagdasaryan).

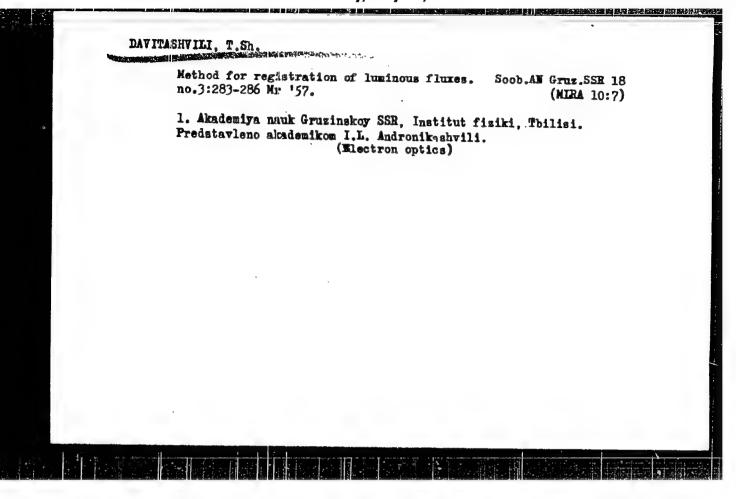
DAVITASHVILI. T.

Georgian S.S.R. Avt. transp. 35 no.10:17 0 '57. (MIRA 10:10)

1.Ministr avtomobil'nogo transporta Gruzinskoy SSR.

(Georgia--Transportation, Automotive)





05469

SOV/120-59-3-40/46

AUTHOR:

Davitashvili, T. Sh.

TITLE:

Automatic Recording of Thermoluminescence Curves (Avtomaticheskaya zapis' krivoy termosvecheniya)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3,

pp 146-147 (USSR)

ABSTRACT: Fig 1 shows the photomultiplier circuit; the output from the photomultiplier is modulated by an alternating voltage applied to the first dynode (input at the bottom left). The valve used is 40 V at 910 c/s. rectified output is applied to one half of a double recording oscillograph. The other half of the oscillograph records the output from the differential thermocouple, which is amplified by the circuit of Fig 2. (Here the input is modulated by a mechanical chopper.) Fig 3 shows a typical result for an X-rayed KCl crystal heated over the range 0 - 200°C. There are 3 figures and 5 references, 2 of which are Soviet, 2 English and

l is a translation of an American book. Institut fiziki AN GruzSSR (Institute of Physics, ASSOCIATION:

Academy of Sciences of the Georgian SSR)

SUBMITTED: May 4, 1958

Card 1/1

5/749/60/007/000/00%/002

AUTHOR: Davitashvil, T.Sa.

The concentration of M and F color on term in RGI memoric, take a TITLE:

a function of the X-ray radiation dose

Akademiya nauk Gruzinskoy SSR - Institut fiziki, Trudy, 5.7, 1960, SOURCE:

89-98 (In Guorgian, with 2-page Receion resumé).

A laboratory investigation was made to determine the variation of the thermoluminescence of KCl monocrystals under A-ray radiation over a temperature interval from 20 to 2000C. Photoelectronic multipliers of the \$35-19 (FEU-19) type and Gu-constantan thermocouples served as lumin-scence and termperature sensors. Samples 10x10x2 mm3 were cut out of monocrystals grown by the Kyropoulos method. The X-ray emitter (70 kv, 5 ma) was placed at 20 cm invathe specimen. Exposures: 5 to 40 minutes. Two clear-cut peaks in the thermoluminescence curve appear at 88°C (corresponding to a thermoionization energy E1 = 0.76 ev) and 183°C (E2 = 1.01 ev). Comparisons with data by other authory identify these two peaks as evoked by the thermologization of M and F centers. Increased X-ray desage does not shift the positions of the two peaks, but increase the area subtended by each. However, the first (initially higher) peak grows

Card 1/3

The concentration of M and F color centers ...

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slowly and attains saturation at 30-40 minutes exposure; the second peak grows at an increasing rate and surpasses the first peak in height with increased exposure. A specimen exposed to X-rays and held in total darkness at room temperature for a prolonged time (e.g., 17 days) loses the first peak altogether; subsequent irradiation with the ordinary light of an incandescent lamp does not restore the lost Npeak, but repeated X-ray exposure will accomplish this. Dark soaking of X-rayexposed specimens will also decrease the height of the first peak, but subsequent irradiation of slowly cooled specimens restores the original height. Graphic data are shown. Discussion of the test results is based on conventional theory (Seitz, F., Rev. Mod. Phys., v. 18, 1946, 384, and v. 26, 1954, 7) of the formation of neutral complexes out of single vacancies in the course of the growth of the monocrystal, and the formation of free electrons, holes, and single vacancies of both signs during X-ray exposure. Since, at room temperature, X-ray-produced single vacancies require appx. 105 sec to join into neutral complexes and the testing time was of the order of 103 sec, complex formation could not be complete. X-ray-produced anion vacancies serve to localize free electrons, and the appearance of F and M centers is regarded as the result of the fixation of free electrons by anion and neutral vacancy complexes. Greater X-ray doses increase the number of free electrons, holes, and single vacancies and, hence, of M and F centers. On the other hand, the number of neutral complexes is limited and the number of M-centers will gradually become saturated, no matter how great the dose of X-rays. By contrast, the

The concentration of M and F color centers ...

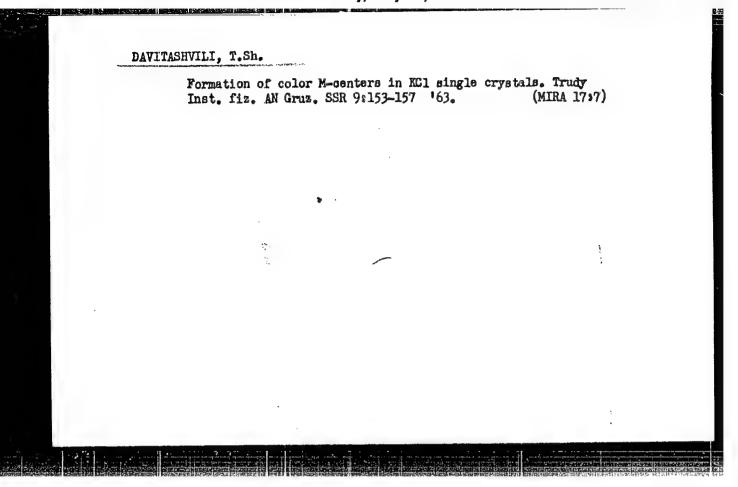
.S/749/60/007/000/006/012

number of F-centers is bound to increase so long as individual vacancies and electrons are generated. The present tests were not sufficiently extended to reach the end of that process. The M-centers are thermally unstable at room temperatur; an ionized M center attracts single cation vacancies and either produces a neutral quartet or decays into a neutral pair and a single anion vacancy. Upon prolor ged dark soaking the M-center becomes ionized and then decays. Hence, optical excitation cannot restore the first peak. Dark soaking at higher temperatures accelerates the ionization and decay of M-centers. Thanks are expressed to A.I. Gachechiladze for guidance and N. G. Politov for review of test results. There are 5 figures, 11 Soviet, 3 English-language and 1 German-language references (Przibram, K., Verfarbung and Lumineszenz. Springer Verlag. 1954).

ASSOCIATION: Non given.

Card 3/3

1



1 16236-65 EPA(s 2/EWT(m)/EPF(c)/EPF(n)-2/EWP(t)/EWP(b) Pr-4/Pt-10/ Pu-4 IJP(c)/ESD(g))/ESD(t)/BSD/AFWI/ASD(a)-5/AS(mp)-2/APGC(b) JD/JG/GG S/0051/64/017/006/0871/0879 ACCESSION NR: AP5000546 B AUTHORS: Davitastvili, T. Sh., Politov, N. G. TITLE: F centers in potassium chloride crystals irradiated in a reactor SOURCE: Optika i spektroskopiya. v. 17, no. 6, 1964, 871-879 TOPIC TAGS: F center, potassium compound, neutron irradiation, x ray irradiation, optical absorption, absorption spectrum, crystal lattice distortion ABSTRACT: To check on the possible changes in the parameters of the P band as a result of irradiation of crystals in the active zone of an atomic reactor, the authors studied the F-band in the spectra of additional optical absorption of potassium chlorite crystals irradiated with neutrons in a reactor (1012 neut/cm2 sec) and by a ZBP(D)-200 x-ray tube (65 kV, 10 mA). Some 10--15 Cord 1/3

L 16286-65 ACCESSION NR: AP5000546

samples measuring $16 \times 8 \times (2-0.5)$ mm were cut from a single crystal ingot grown by the Kiropoulos method from "specially pure" material. The samples were simultaneously irradiated at fixed points of the active some of the atomic reactor, in integral neutron fluxes 2.16 x 10 6-3.6 x 10 7 neut/cm2. The irradiated samples were stored for some time (up to a month) to allow the induced radioactivity to drop to a permissible level. "Self-colored" and x-ray irradiat od samples were investigated in parallel. The selfcoloring was produced by the residual radioactivity of a crystal exposed to a neutron flux 3.6 x 1017 neut/cm2 and stored for 21 months in darkness at room temperature. The optical absorption spectra were measured with SF-4 spectrophotometer with a cryostatic attachment that made measurements possible in the range 85-300K. The results show that the half-width of the F-band increases with increasing integral neutron flux. An investigation of the form and temperature dependences of the parameters of the separated F-band has shown that the observed broadening is not the result of over-

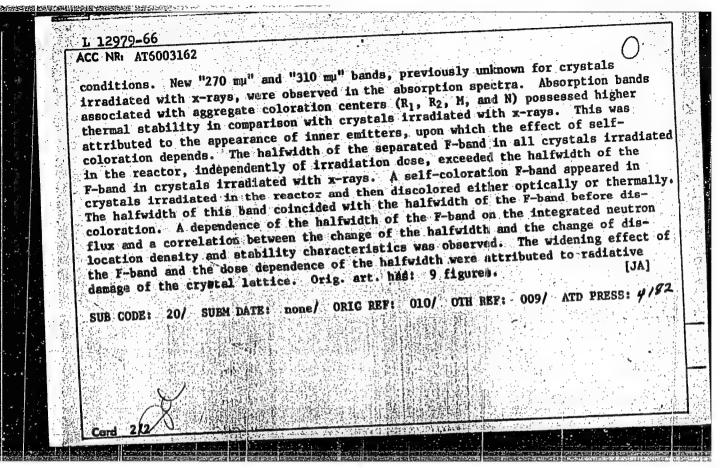
Card 2/3

L 16286-65 ACCESSION NR: AP5000546 lapping different bands, but is due to the interaction of the Fcenter with the distorted crystal lattice. The conclusions are corroborated by a comparison of the theoretical parameters for Fcenters with ideal and distorted crystal environments. Orig. art. has: 7 figures, 4 formulas, and 1 table. ASSOCIATION: None ENCL: 00 SUBMITTED: 20Nov63 NR REF SOV: 003 007 OTHER: SUB CODE: SS, OP 3/3 Card

"APPROVED FOR RELEASE: Thursday, July 27, 2000

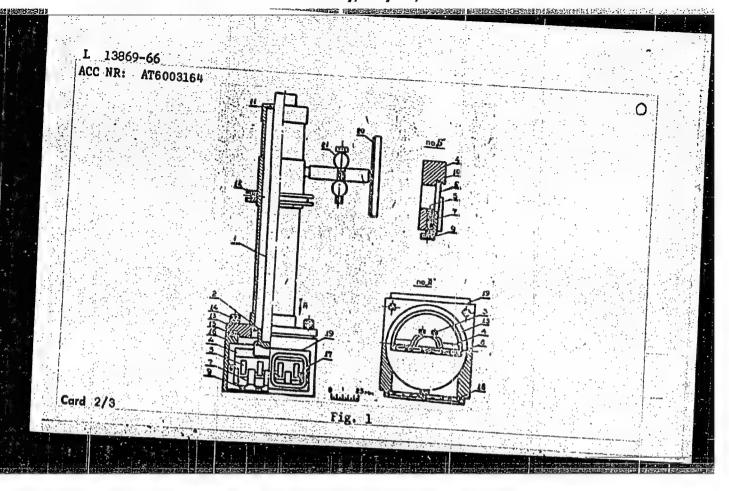
CIA-RDP86-00513R00050981

EWT(1)/EWT(m)/EPF(n)-2/T IJP(c) 1. 12979-66 UR/3182/64/001/000/0042/0054 SOURCE CODE: ACC NR: AT6003162 AUTHOR: Davitashvili, T. Sh.; Politov, N. G. ORG: none 21, 44,5 TITLE: Local centers in irradiated ionic crystals SOURCE: AN GruzSSR. Institut fiziki. Elektronnyye i ionnyye protsessy v tverdykh telakh, v. 1, 1964, 42-54 TOPIC TAGS: ionic crystal, crystal deformation, crystal lattice distortion, color center, neutron irradiation, irradiation damage ABSTRACT: An investigation was made of the relationship between the change in microstructure and the optical properties of coloration centers in potassium-chloride crystals irradiated in a reactor. Such investigations are important since F-centertype point defects exert a strong effect on fundamental properties such as stability, thermal conductivity, etc. Coloration centers are also used in studying the interaction of electron, hole, ion, and dislocation processes due to neutron irradiation in solid bodies such as alkali halide crystals. An attempt was thus made to show that changes in microstructure determine the generation and interaction of local electron and hole centers in irradiated alkali halide crystals. Specimens 13 x 10 x 1-1.5 mm, unannealed and unpolished, were simultaneously irradiated in an atomic reactor with neutron fluxes from 1.8 x 10^{15} to 3.6 x 10^{17} n/cm² under identical Card 1/2



CC NR: AT6003164	(t)/EWP(b) I,JP(c) JD SOURCE CODE: UR/	/3182/64/061/000/0101/0102
UTHOR: Davitashvili, T	Sh.	37
The same of the sa	A Constant of the Constant of	B+1
RG: none		
ITLE: Cryostat for the	SF-4 spectrophotometer	
OURCE: AN GruzSSR. Ins	titut fiziki. Elektronnyye i io	nnyye protsessy v tverdykh
elakh, v. 1, 1964, 101-	102	
	Laborator light shownt	ion shoomstica spectrum
OPIC TAGS: cryostat, 8	bectrobuotometer, trant ensorbe	Tott, apporterous spectrum
	pectrophotometer, light absorpt	
BSTRACT: The author de	scribes a cryostat for measuring	g optical absorption spectra res (see figure). The liquid
DSTRACT: The author de on an SF-4 spectrophomet	scribes a cryostat for measuring er at <u>liquid nitrogen</u> temperatu	g optical absorption spectra res (see figure). The liquid ade from a thin-walled stain-
DSTRACT: The author de on an SF-4 spectrophomet itrogen cylinder (1) ha less steel tube. A cove	scribes a cryostat for measuring er at <u>liquid nitrogen</u> temperatures a capacity of 85 cm ³ and is more (2) is soldered to the lower factoring the cryotal holder (4)	g optical absorption spectra res (see figure). The liquid ade from a thin-walled stain- end of the cylinder and two) to this cover. The crystal
ABSTRACT: The author department of the spectrophometric description of the street tube. A cover of the street of t	scribes a cryostat for measuring er at <u>liquid nitrogen</u> temperatures a capacity of 85 cm ³ and is more (2) is soldered to the lower fastening the crystal holder (4 ith dimensions of 12×7 mm ² . F1	g optical absorption spectra res (see figure). The liquid ade from a thin-walled stain- end of the cylinder and two) to this cover. The crystal at plates (7), which slide
ABSTRACT: The author department of the spectrophometric description of the screws (3) are used for colder has windows (5) we have the screws (5) which the screws (5) which the screws (6) is the screws (7) is the screws (8) are used for colder has windows (5) which the screws (8) is the screws (9) is the screws (10) is the screw (10) is the screws (10) is the screws (10) is the screws (10) is the screw (10) is the scr	scribes a cryostat for measuring er at <u>liquid nitrogen</u> temperatures a capacity of 85 cm ³ and is more (2) is soldered to the lower fastening the crystal holder (4 ith dimensions of 12×7 mm ² . Fluinders and screws (9) are us	g optical absorption spectra res (see figure). The liquid ade from a thin-walled stain- end of the cylinder and two) to this cover. The crystal at plates (7), which slide ed for pressing the specimen
BSTRACT: The author deman SF-4 spectrophometritrogen cylinder (1) has ess steel tube. A coverews (3) are used for colder has windows (5) we have	scribes a cryostat for measuring er at <u>liquid nitrogen</u> temperatures a capacity of 85 cm ³ and is more (2) is soldered to the lower fastening the crystal holder (4 ith dimensions of 12×7 mm ² . F1	g optical absorption spectra res (see figure). The liquid ade from a thin-walled stain- end of the cylinder and two) to this cover. The crystal at plates (7), which slide ed for pressing the specimen

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050981



L 13869-66

ACC NR: AT6003164

flange and plate are beveled to prevent the specimen from falling out when it is cooled. The crystal holder is made entirely from copper. The upper end of the cylring (12). A rectangular base (13) is soldered to the cryostat housing is pressed by four screws (14) to the vacuum seal (15) (a flat rubber ring) of the opwindows (16). On the two opposite faces of the optical cell are two pairs of which borders each pair of windows protects the glass from damage. A vacuum is nitrogen is poured into the cylinder. This cryostat may be used throughout the enously on three specimens. The cryostat is simple and reliable. Orig. art. has: 1

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 002

Card 3/3 mc

L 18887-66 EWT(1)/EWT(m)/EPF(n)-2/T IJP(o) AP6006997 SOURCE CODE: UR/0051/66/020/002/0272/0275 AUTHOR: Davitashvili, T. Sh.; Politov, N. G. 33 21, 44, 55 = 21, 44,55 TITLE: Optical properties of F-centers in potassium chloride crystals irradiated in a reactor SOURCE: Optika i spektroskopiya, v. 20, no. 2, 1966, 272-275 TOPIC TAGS: neutron irradiation, potassium chloride, color center, crystal radiation effect ABSTRACT: Previous studies of the form and temperature variation of optical absorption parameters in the F-band have shown that the theory developed for Fcenters in an ideal surrounding is applicable also to F-centers in a distorted surrounding, although the theoretical parameters require considerable alteration. The authors compare the changes required in this case with those which follow from the configuration curve and analyze the optical properties of F-centers with distorted surroundings on the basis of this curve. The configuration curve is given by the four constants K_g , K_e , X_0 , and U_0 . The constants K_g and K_e are the elastic forces Card 1/2 UDC: 548.0 : 620.192+535.37

L 18837-66

ACC NR: AP6006997

which displace the ions from their equilibrium position in the ground and excited states. The constants X₀ and U₀ are the abscissa and ordinate for the shift in the minimum energy of the excited state with respect to the unexcited state. It is found that the same conclusions may be drawn from analysis of the variations in parameters of the theory and those of the configuration curve with respect to the optical properties of F-centers. An increase in the integrated neutron flux during irradiation of the crystal reduces the Huang and Rhys parameter—S. This means that in the excited state the F-center takes up less volume than an F-center with an ideal surrounding (X₀ decreases), and there is also a reduction in the number of phonons corresponding to the absorption band maximum. The energy transmitted to the lattice by light absorption is constant (the Stokes shift is invariant); therefore there should be an increase in the energy of phonons generated by the absorption of light. Similar conclusions may be drawn from an analysis of variations in the parameters of the configuration curve (an increase in K and K and a reduction in X₀).

A comparison of experimental and theoretical data indicates that the luminescence intensity of F-centers in crystals irradiated in a reactor should not be affected by variations in the integral neutron flux and that there should be an increase in the half-width of the emission band. Orig. art. has: 1 figure, 1 table, and 5 for-

SUB CODE: 20/ SUB ATD PRESS: 4217

SUBN DATE: 07Dec64/

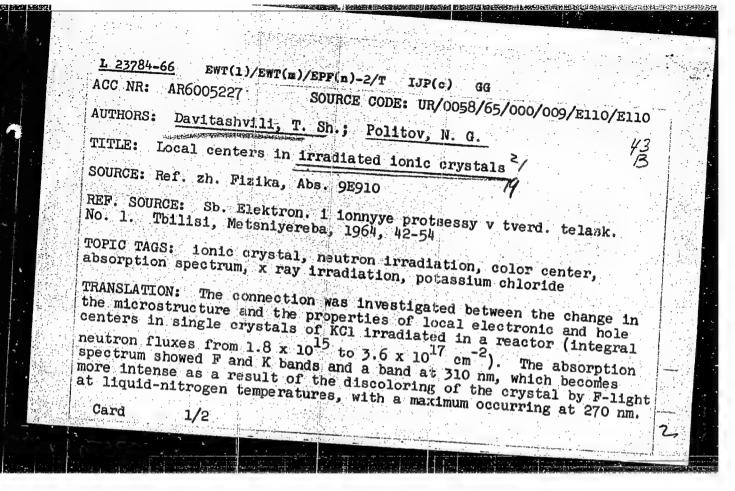
ORIG REF: 004/

OTH REF: 015

Card 2/2 MC

L 22265-66 ACC NR: AR6005178 SOURCE CODE: UR/0058/65/000/009/A020/A020 SOURCE: Ref. zh. Fizika, Abs. 9A173 AUTHORS: Davitashvili, T. Sh. Measurement of large optical densities with the SF-4 spectrophotometer TITLE: REF SOURCE: Sb. Elektron. i ionnyye protsessy v tverd. telakh. No. 1. Tbilisi, Metsniyereba, 1964, 98-100 TOPIC TAGS: spectrophotometer, optic density, photographic densitometer/ SF 4 TRANSIATION: A new method is proposed for measuring large optical densities, D = 2--5, which are usually difficult to measure because of the relatively small linear section of the light characteristics of the photoreceivers. In the proposed method, the requirement with respect to the region of linearity of the photoreceiver has been relaxed at the expense of a controlled increase in the intensity of the light flux passing through the high-density sample. This increase is attained by increasing the width of the exit slit of the monochromator. Results are presented of the measurement of large densities by this method with SF-4 spectrophotometer. According to the author's data, the error in the measurement of densities of the order of D = 5 SUB CODE: 20 Card 1/1

L 22263-66 ACC NR. AR6005176 SOURCE CODE: UR/0058/65/000/009/A019/A019 Davitashvili, T. Sh. 30. TITIE: Cryostat for the SF-4 spectrophotometer B SOURCE: Ref. zh. Fizika, Abs. 9A157 REF. SOURCE: Sb. Elektron. i ionnyye protsessy v tverd. telakh. No. 1. Tbilisi, Metsniyereba, 1964, 101-102 TOPIC TAGS: cryostat, spectrophotometer, light absorption, absorption spectrum/SF-4 TRANSLATION: The article describes in detail the construction of a metallic cryostat for the measurement of optical absorption spectra in the temperature interval 85 -300K using the SF-4 spectrophotometer. The cryostat is sufficiently simple and makes it possible to carry out measurements on three samples simultaneously. Not more than 50 - 60cc of liquid nitrogen is consumed per hour in maintaining the attained temper-SUB CODE: 20



L 23784-66

ACC NR: AR6005227

The half width of the F band depends on the irradiation dose and exceeds the half width in the spectrum of the x-irradiated crystal. A correlation is noted between the dose dependence of the half width of the band with variation of the density of the dislocations and with variation of the strength characteristics. In KCl with admixture of LiCl (0.7 mol.%) and NaCl (2 mol.%) irradiated with a dose of 1.2 x 10¹⁶ cm⁻², bands were observed at 620 and 600 nm respectively, connected with formation of electronic A centers (the F center, in the first coordination sphere of which one of the ions of potassium is replaced by an Lr or Na ion). In the spectrum of crystals irradiated at room temperature and at 90K, there was registered a hole V₂ band (230 nm), which is stable at room temperature, thus indicating the special conditions for the existence of hole centers in crystals irradiated with neutrons. The recovery of F bands (self coloring) and of optically or thermally discolored irradiated crystals, which is connected with the existence in the crystals of internal sources of radiation (impurities activated upon irradiation), is investigated. Yu. Tyutrin

SUB CODE: 20

Card

2/2 W

ACC NR: AT7000182

SOURCE CODE: UR/3182/65/002/000/0040/0045

AUTHOR: Davitashvili, T. Sh.; Zhvaniya, M. F.

ORG: none

TITLE: Thermoluminescence and optical absorption spectra of irradiated LiF crystals

SOURCE: AN GruzSSR. Institut fiziki. Elektronnyye i ionnyye protsessy v tverdykh telakh, v. 2, 1965, 40-45

TOPIC TAGS: neutron irradiation, irradiation effect, gamma irradiation, crystal absorption, crystal lattice dislocation, the moluminesence, absorption of the contraction of the contrac

ABSTRACT: An investigation was made of the generation of dislocations in alkali halide crystals irradiated in an atomic reactor. Specimens $10 \times 0.8 \times 0.5$ cm taken from a single crystalline ingot were annealed at 700K (one week), cooled slowly (two days) to room temperature, split into smaller $1.5 \times 0.8 \times 0.5$ m specimens, and separated into three groups. The first group was irradiated in the active zone of a nuclear reactor at a normal temperature (310K, with a thermal neutron intensity of 1.1×10^{12} n/cm²·sec), the second was irradiated at low temperature (155K, with a thermal neutron intensity of 0.55×10^{12} n/cm²·sec), and the third was irradiated in a radiative gamma-loop at room temperature (dose rate 8×10^5 r/hr). With an increase in neutron flux or in gamma-ray dose, the intensity of the low-temperature peaks decreased, dropping to zero, and a new peak (or peaks) formed in the higher-temperature

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ACC NR: AT7000182

region. A displacement of peaks to the high-temperature side and a suppression of low-temperature peaks occurred. These changes were less noticeable in LiF crystals irradiated in the gamma-loop, and were not observed at all in KCl crystals irradiated in the reactor. It is concluded that the changes are the result of a specific neutron effect on LiF crystals: the amplification of the generation of radiative damages of the crystal lattice caused by the products resulting from nuclear reaction on the Li⁶ isotope (high-energy alpha particles appearing in the crystal lattice itself) as the result of the capture of thermal neutrons. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 001/ ATD PRESS: 5109

Cord 2/2

ACC NR1 AP6026699

SOURCE CODE: UR/0181/66/008/008/2446/2449

AUTHOR: Davitashvili, T. Sh.; Politov, N. G.

ORG: Institute of Physics, AN GruzSSR, Tbilici (Institut fiziki AN GruzSSR)

TITLE: Compressibility and structure of color centers

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2446-2449

TOPIC TAGS: color center, alkali halide, absorption band, impurity center

ABSTRACT: The effect of candidirectional compression on the spectral parameters of color centers in alkali halide crystals is investigated. Ivey's equation for the shift in the absorption F-band (Phys. Ref. vol. 72, p 341 (1947)) is low by a factor of two when certain crystals are subjected to pressure from all sides. The Ivey equation is modified by using the defect parameter instead of the lattice parameter. Parameters characterizing the displacement of the F-band in NaCl, KCl, KBr, and KI are given in a table. It is shown that the compressibility of the F-center is approximately twice that decrease in distance between the ions which govern the compressibility of the capture electron take place. Impurity (e. g., silver) absorption bands do not shift under pressure as much as the F-band. There may be an anomalous displacement of the impurity

Card 1/2

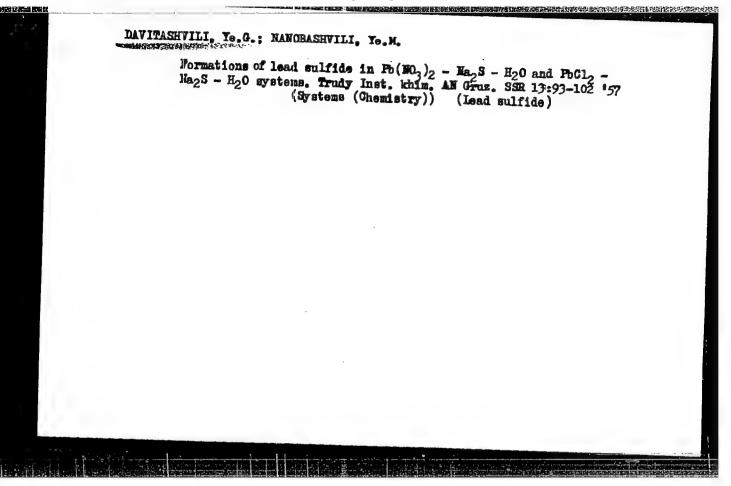
Dand in the long-wave direction when pressure is applied. If the impurity center has no vacancies, and the electron transitions take place only in the field of the impurity ion, the optical transitions in such a center can be compared to those in a hydrogen atom immersed in a dielectric medium. This is substantiated by experiment. Orig. art. has: 4 formulas, 1 table.

SUB CODE: 20/ SUBM DATE: 24Jun65/ ORIG REF: 005/ OTH REF: 012

DAVITASINIL! Vo.G.; MODEBADZE, M.Ye.

Mechanism of yttrium oxalate formation. Socb. AN Gruz. SSR 39 no.2:305-312 Ag 165. (MIRA 18:9)

1. Institut fizicheskoy i organicheskoy khimii imeni Melikishvili. Submitted April 9, 1965.



NANOBISHVILI, Ye.M.; DAVITASHVILI, Ye.G.; GIORGOBIANI, M.Ya.

Reactions of formation of gallium and germanium sulfides. Trudy
Inst.khim.AH Azerb.SSR 17:38-45 '59. (MIRA 13:4)

1. Institut khimii AH GrusSSR.
(Gallium sulfide) (Germanium sulfide)

DAVITASHVILI, Ye.G.; KURASHVILI, S.G.; GIORGOBIANI, M.Ya.; NADAREYSHVILI,

Sh.A.; SHELIYA, N.G.

Chem. coanalytical characteristics of sedimentary rocks of some soil fields in Georgia. Report No.l. Trudy Inst.khim.aN Gruz.

SSR 16121-30 *62.

(Rocks, Sedimentary) (Georgia—Oil fields)

DAVITASHVILI, Ye.G.; KURASHVILI, S.G.

Determination of germanium in manganese ores. Soob. AN Gruz. SSR 29 no.2:143-149 Ag 62. (MIRA 18:3)

1. Institut khimii imeni Melikishvili, AN GruzSSR, Tbilisi. Submitted April 11, 1960.

MZAREULISHVILI, N.V.; DAVITASHVILI, Ye.G.; GIORGOBIANI, M.Ya.;

Complex systems with metal hydroxides. Soob. AN Gruz. SSR 39 no.1:67-74 Jl *65. (MIRA 18:10)

1. Institut khimii imeni Melikishvili AN GruzSSR. Submitted September £9, 1964.

MZ AREULISHVILI, N.V.; GIORGOBIANI, M.Ya.; DAVITASHVILI, Ye.G.

Mechanism of the formation of lanthanum and cerium hydroxide. Soob. AN Gruz. SSR 38 no.1:69-76 Ap 165.

(MIRA 18:12)

1. Institut khimii imeni Melikishvili AN GruzSSR. Submitted Sept. 29, 1964.

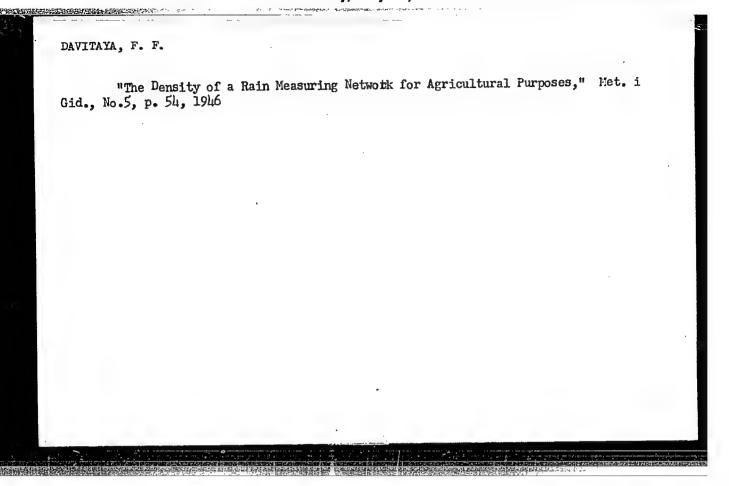
"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050981

DAVITASHVILI, Ye.G.; MODEBADZE, M.Ye.; SHELIYA, N.G.

Interaction of yttrium chloride with sodium, ammonium, and potassium oxalates. Soob. AN Gruz. SSR 40 no.2:325-332 N 165. (MIRA 19:1)

1. Institut fizicheskoy i organicheskoy khimii AN GruzSSR. Submitted June 5, 1965.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050981



T.	DAVITAYA, F. F.							
	"Prominent Representative of Soviet Agrometeorology (G. G. Selyaninov)," No 4, pp 89-91. (Meteorologiya i Gidrologiya, No 6 Mov/Dec 1947)							
	SO: U-3218, 3 Apr 1953							
इ.स.च्या								

HUBINSHTEYN, Ye.S.; GOL'TSBERG, I.A.; DAVITAYA, F.T.; DROZDOV, O.A.

Against vulgar simplification and dilettantism. Meteor. i gidrol. no.4:100-103 '48. (MLRA 8:2)

(Atmospheric temperature)

Severe criticisms distribution maps of mean monthly air temperatures in Jan and Jun at earth's surface drawn up by Prof V. I. Vitkevich, Dr. Physicomath Sci, and published in Sovetskaya Agronomiya, No.5, 1947. Also criticizes Vitkevish's "Frosts and the Fight Against Them" in Sovetskaya Agronimiya, No.5/6, 1946, and deplores lack of information shown by a doctor who heads Chair of Meteorology, Timiryazev Agr. Acad. Submitted 15 pr 48.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00050981

DAVITAYA F. F.,

USSR/Geophysics - Agroclimatology Dec 48

"Review of P. I. Koloskov's Book 'Agroclimatological Regional Division of Karakhstan," F. F.
Davitaya

"Meteorol i Gidrol" No 6, pp 114-121

Very favorable review of subject book, which reviewer regards as one of most important books to be published in recent years in this field.

Submitted 25 Jan 48.

DAVITAYA, F. F.

"Certain Problems on the Development of Meteorology and Climatology in Connection with the Results of the Session of the All-Union Acad. of Agricultural Sciences im. Lenin," Iz. of the All-Union Geographical Society, Vol. 3, pp. 273-281, 1949

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050981

DAVITAYA, F. F.

27246. DAVITAYA, F. F.— Moskovskoy oblastikornesobstvennuyu kul'turu vinograda.
Vinograda. Vinodelie i vinogradarstvo SSSR, 1949, No. 8, s. 20-23.

S0: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

HERLYAND, M.Ye., kandidat fixiko-matematicheskikh nauk; GOL'TSHERG, I.A. kandidat sel'skokhozyaystvennykh nauk; DAVITATA, F.F., doktor sel'skokhozyaystvennykh nauk; HRASIKOV, P.F., Kandidat fixiko-matematicheskikh nauk.

Combating frosts in the U.S.S.R. Meteor.i gidrol. no.2:17-23
F '52.

1. GUGMS pri Sovete Ministrov SSSR, Leningrad, Glavnaya geofizicheskaya observatoriya.

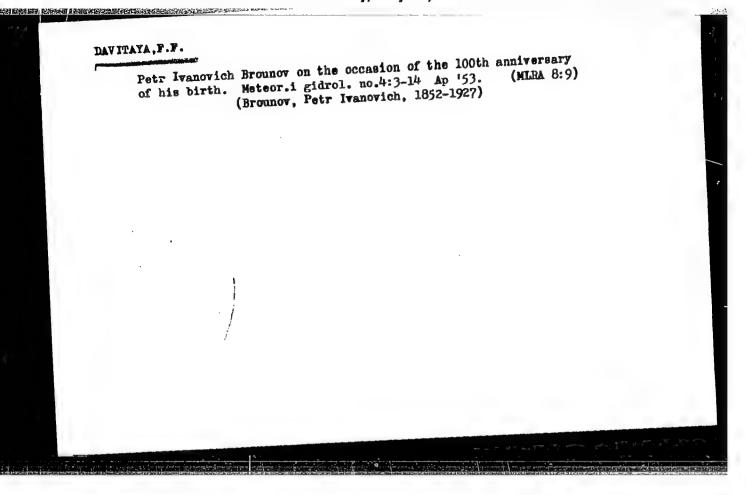
(Frost) (Grops and climate)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050981

"Tendencies and Methods of Agricultural Meteorology in the USSR," published in Angewante Meteorologie (Applied Meteorology), No.7, 1952

DAVITAYA, F. F.

	DAVITAYA, F. F.	TBITES	agrometeorological science in USSR is not agrometeorological science in USSR is not sufficient to meet the high demand of practice sufficient to meet the transformation of in the Stalin plan for the transformation of nature, comprising "magnificent" projects. Notes that improvement of present state of agrometeorology and the strengthening of its "coopmeteorology and the strengthening of the eration with production are further aims of the hydrometeorological service.	Discussions of agrometeorological problems, which started in 1935 in "Meteorol i Gidrol which started in 1935 in "Meteorol i Gidrol No 3 and 4. Authoress sharply criticizes ineptness of American meteorologists as ineptness of American soviet methods. compared with "ingenious" Soviet methods. Nevertheless, she states, the development of Nevertheless, she states.	"Results of Discussions on Agrometeorology," F. F. Davitaya, Dr Agr Sci, Moscow, Main Admin of Hydrometeorol Sv, Council of Ministers USSR "Meteorol 1 Gidrol" No 10, pp 3-8	USSR/Meteorology - Agrometeorology - Oct 52
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DAVITAYA, F. F.

"Status and Prospects for the Development of Soviet Climatology, According to the Results of the All-Union Conference," Meteorol, i gidrologiya, No 9, 1953, p 368

The author presents the results of the discussion on the principal problems of climatology which took place at the All-Union Conference in Leningrad 22-27 June 1953, and which have appeared in print. In the main the author expounds on the resolutions taken by the conference. (RZhGeol, No 5, 1954)

SO: Sum No. 568, 6 Jul 55

DAVITAYA, F.F. Bucommia in the foothills of the northern Caucasus. Bot. zhur. 39 no. 4: 577-579 JI-Ag '5h. (NLRA 7:10) 1. Maykopskaya opytnaya stantsiya, Vsesoyuznyy institut rasteniyevodstva VASKhNIL. (Caucasus, Northern--Bucommia) (Bucommia--Caucasus, Northern) CORSER TREES

SINGLISHCHIKOV, V.V.; DAVITAI F.F., redaktor; YASHOGORODSKAYA, M.M., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor

[Hydrometeorological service at the All-Union Agricultural Exhibition] Gidrometeorologicheskaia sluzhba na Vsesoiuznoi sel'skokhoziaistvennoi vystavke. Pod red. F.F.Davitaia. Leningrad, Gidrometeorologicheskoe izd-vo, 1955. 83 p. (MIRA 9:2) (Moscow--Agricultural exhibitions) (Meteorology)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050981(

DAVITAYA, F.F., doktor sel'skekhezyaystvennykh nauk, redakter; MANOIM, L.F., redakter; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor.

[Agroclimatic and water resources of regions having virgin and waste lands to be reclaimed] Agroklimaticheskie i vodnye resursy raionov osvoeniia tselimnykh i saleshnykh semel! Pod red. F.F.Davitaia. Leningrad, Gidrometeorologicheskee isd-ve, 1955. 463 p. (MERA 9:6)

1.Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy slushby.

(Russia -- Climate) (Water supply, Rural)

GERASIMOV, I.P., akademik; VASYUTIN, V.G., professor: DAVITAYA, F.F., professor KALESNIK, S.V.; SALISHCHEV, K.A., professor

[Problems in geography; a collection of articles for the 18th International Geographical Congress] Voprosy geografii; sobrnik statei dlia XVIIIgo Mezhdunarodnogo geograficheskogo kongressa. Moskva, Izd-vo Akademii nauk SSSR, 1956. 394 p. (MIRA 9:10)

1. Geograficheskoye obshchestvo SSSR. 2. Chlen-korrespondent AN SSSR (for Kalesnik) (Geography)

BENEDIKTOV, I.A., redaktor; GRITSKNKO, A.V., redaktor; IL'IN, M.A., zamestitel' glavnogo redaktora, LAPTEV, I.D., LISKUN, Ye.F.; LOBANOV, P.P., glavnyy redaktor; LYSENKO, T.D.; SKRYABIN, K.I.; STOLETOV, V.H.; PAVLOV, G.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyv redaktor; SOKOLOV, N.S., professor, nauchnyy redaktor; ANTIPOV-KARATAYEV, I.N., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KARPINSKIY, N.P., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHESTAKOV, A.G., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; RUBIN, B.A., doktor sel'skokhozyaystvennykh nauk, nauchmyy redaktor: KOMARNITSKIY, N.A., dotsent, nauchnyy redaktor; LYSKNKO, T.D., akademik, nauchnyy redaktor; POLYAKOV, I.M., professor, nauchnyy redaktor; SHCHEGOLEV, V.N., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; YAKUSHKIN, I.V., akademik, nauchnyy redaktor; LARIN, I.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; SMELOV, S.P., professor, doktor biologicheskiy nauk, nauchnyy redaktor; EDEL: SHTEYN, V.I., professor, doktor seliskokhozyaystvennykh nauk, nauchnyy redaktor; SHCHERBACHEV, D.M., professor, doktor meditsinskikh nauk, nauchnyy redaktor; OGOLEVETS, G.S., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; YAKOVLEV, P.N., akademik, naychnyy redaktor; YMKIMOV, V.P., agronom, mauchnyy redaktor [deceased], MYTINGEN, G.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; TIMOFEYEV, N.N., professor, nauchnyy redaktor; TUROV, S.I., professor, doktor biologicheskikh nauk; YUDIN, V.M., akademik, nauchnyy redaktor; LISKUN, Ye.F., akademik, nauchnyy redaktor; VITT, V.U., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor: KALININ, V.I.. kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor: (Continued on next card)

BENEDIKTOV. I.A .--- (continued)

GREBEN', L.K., akademik, nauchnyy redaktor; NIKOLAYEV, A.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; RED'KIN, A.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SMETNEV, S.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POPOV. I.S., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; MANTEYFEL', P.A., professor nauchnyy redaktor; INIKHOV, G.S., professor, doktor khimicheskikh nauk, nauchnyy redaktor; ANFIMOV, A.N., professor, nauchnyy redaktor; GUBIN, A.F., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POLTEV, V.I., professor, doktor veterinarnykh nauk, nauchnyy redaktor; LINDE, V.V., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; CHERGAS, B.I., professor, doktor biologicheskikh nauk, nauchnyy redaktor; TYANOV, S.V., professor, doktor veterinarnykh nauk, nauchnyy redaktor; IVANOV, S.V., professor, doktor veterinarnykh nauk, nauchnyy redaktor; IVANOV, S.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; VIKTOROV,

K.P., professor, doktor veterinarnykh nauk, nauchnyy redaktor; KOLYAKOV, Ya.Ye., professor, doktor veterinarnykh nauk, nauchnyy redaktor; ANTIPIN, D.N., professor, doktor veterinarnykh nauk, nauchnyy

Card 2.

redaktor; MARKOV, A.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; DOMRACHEV, G.V., professor, doktor veterinarnykh nauk, nauchnyy redaktor: OLIVKOV, B.M., professor, doktor veterinarnykh nauk nauchnyy redaktor [deceased]; FLEGMATOV, N.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; BOLTINSKIY, V.N., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; VIL YAMS, VI.P., professor

sor, doktor tekhnicheskikh nauk, nauchnyy redaktor; KRASNOV, V.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor;

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BENEDIKTOV. I.A. --- (continued) Card 3.

YEVERINOV, M.G., akademik, nauchnyy redaktor; SAZONOV, N.A., doktor tekhnicheskikh nauk, nauchnyy redaktor; NIKANDROV, B.I., inzhener, nauchnyy redaktor; KOSTYAKOV, A.N., akademik, nauchnyy redaktor; CHERKASOV, A.A., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; DAVITAYA, F.F., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; IVANOV, N.N., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; ORLOV, P.M., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; ORLOV, P.M., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; ORLOV, P.M., kandidat ekonomicheskikh nauk, nauchnyy redaktor; CHERNOV, A.V., kontrol'nyy redaktor; ZAVARSKIY, A.I., redaktor; ROSSOSHANSKAYA, V.A., redaktor; FILATOVA, N.I., redaktor; YEMEL'YANOVA, N.I., redaktor; SILIN, V.S., redaktor BRANZBURG, A.Yu., redaktor; MAGNITSKIY, A.V., redaktor terminov; KUDRYAVTSEVA, A.G., redaktor terminov; AKSENOVA, A.P., mladeshiy redaktor; MALYAVSKAYA, O.A., mladeshiy redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor (Continued on next card)

BENEDIKTOV, I.A.---(continued) Card 4.

[Agricultural encyclopedia] Sel'skokhoziaistvennaia entsikolopediia.
Isd.3-e, perer. Moskva, Gos. isd-vo selkhoz. lit-ry. Vol.5. [T-IA.]
1956. 663 p.

(Agriculture-Dictionaries and encyclopedias)

(Agriculture-Dictionaries and encyclopedias)

14-57-7-14764

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,

CONTRACTOR STREET, STR

pp 84-85 (USSR)

AUTHOR: Davitaya, F. F.

TITLE: Deliberate Man-Made Climatic Changes (Napravlennoye

izmeneniye klimata antropogennymi faktorami)

V sb: Vopr. geografii, Moscow-Leningrad. AN SSSR. PERIODICAL:

1956, pp 160-169.

ABSTRACT: The author reviews the literature on microclimatic

changes. Climate can be improved in the following ways: 1) irrigation and introduction of water:

2) desiccation and deforestation; 3) planting forest

belts to protect fields and establishing forest masses; 4) snow utilization; 5) working of soil, use of agrotechnology, and raising of crops; 6) artificial heating

of crops to combat frost damage. Intelligent application of several such measures is the surest way to

bring about climatic change in the active layer. A

Card 1/3 careful study has been made of ways in which various

14-57-7-14764

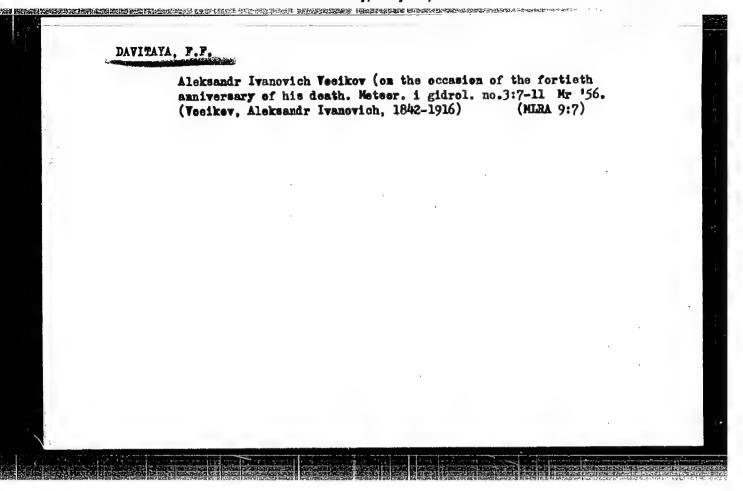
Deliberate Man-Made Climatic Changes (Cont.)

techniques may be combined in order to change the temperature, the moisture content, and the relation between these two factors. plan has been devised for altering hydro-meteorological conditions; it takes into consideration the width, height, and composition of forest belts, as well as irrigation periods and norms under various climate and weather conditions. It is the chief task of forest belts to protect fields from wind (forests serve to decrease its speed and check its vertical circular movements over fields). A forest belt must be sufficiently open and must have as few wide gaps as is possible. Its open spaces should be no more than 10 m The presence of forest belts and the use of advanced to 20 m wide. reclamation techniques on soils with a good structure will increase productive moisture content in a 1-m layer of the soil in the arid zone of the USSR from 60 mm in the south to 100 mm in the northeast. The depth and duration of absolute minimum temperatures as well as average daily temperature levels can cause forest damage to crops. Frost is considered dangerous when the temperature sinks no more than 3° to 5° below the level which is critical for plants of a given region. If the temperature in the European USSR could be Card 2/3

14-57-7-14764

Deliberate Man-Made Climatic Changes (Cont.)

artificially raised as much as 1°, damage to grapes would be half as great as it is now. If it could be raised 1° to 1.5°, frost danger would be virtually eliminated. Effectiveness of smudging is proportional to the amount of heat generated by the smudge piles; for this reason the piles should be composed of dry material. Sensible crop raising methods in the northern regions can increase the sum of temperatures of all periods above 10° by 200° to 300°; i.e., they can bring the temperatures up to the level which, under natural conditions, is approximately the same as the level found 200 km south of this area. A bibliography of 23 titles is included. Card 3/3



DAUTAYA, FX

GERASIMOV, I.P.; ARMAND, D.L.; BUDYKO, M.I.; DAVITAYA, F.F.; DZERDZEYEVSKIY, B.L.; KUNIN, V.N.; L'VOVICH, M.I.; RIMITER, G.D.; SHEVISOV, P.F.

Thermal and hydrological regime of the earth's surface, its rele in the dynamics of natural processes, geographical differences, and methods of transforming it for practical purposes. Izv.AN SSSR.Ser.geog. no.4:
47-59 Jl-Ag '56. (MLRA 9:10)
(Hydrology)

(MIRA 11:12)

DAVITAYA, F.F., doktor sel'skokhoz.nauk; MOVSISYANTS, A.P., otv. za vypusk

[Natural and climatic conditions and differentiated farm
management] Prirodno-klimaticheskie usloviia i differentsirovannoe
vedenie sel'skogo khoziaistva. [Moskva, M-vo sel'.khoz.SSSR, 1957]

(Crops and climate) (Farm management)

19 p.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050981

SINEL'SHGHIKOV. Viktor Vasil'yevich; Davitay, F.F., redsktor; Yashogohouskaya, M.M.. redsktor; Soloveychik, A.A., texineneskiy redsktor

[Hydrometeorological service at the All-Dunon Agriculturel khihition] Gidrometeorologicheskaia sluzhbe ne Vassciuznoi sel'skokhozisistvennoi vystevke. Izd. 2-oc, perer. i dop. Pod red. F.F.Davitaia. Leningrad, Gidrometeor. izd-vo, 1957. 86 p.

(Moscow-Agriculturel exhibitions) (MLRA 10:10)

(Hydrometeorology)

VOYEYKOV, Aleksandr Ivanovich; DAYUNIVA I., otvetstvennyy redaktor; PETUNIN, I.M., redaktor; TASNOGRODSKATA, M.M., redaktor; FIAUM, M.Ya., tekhnicheskiy redaktor

[Selected works; genicultural meteorology] Imbrannye sochineniia; sel'skokhosiaistvennais meteorologia. Ieningrad, Oldrometeor.
ind-vo, 1957, 256 p.

(Mateorology, Agricultural)

DAVITAYA, F. F.

VAVILOV, N.I. akademik; BAKHTETEV, F.Kh., professor, doktor sel'skokhosyay—
stvennykh nauk, otvetstvennyy redaktor; BARAMOV, P.A., redaktor; BAKH—
TEYEV, F.Kh, redaktor; DAVITAYA. T., redaktor; ZHUKOVSKIY, P.M., redaktor;
IVAHOV, N.P., redaktor; SUKACHEV, V.N., akademik, redaktor; TSITSIN, H.V.,
akademik, redaktor; VIKHREV, S.D., redaktor isdatel'stva; BURYKH, E.Yu.,
tekhnicheskiy redaktor.

[Morld resources of varieties of grain, pulse crops and flax, and their utilization in plant breeding Agroecological survey of the most important field crops] Mirovye resursy sortov khlebnykh slakov, zernovykh bobovykh, 1'na i ikh 4spol'zovanie v selektsii. Moskva, Isd-vo Akad.nauk SSSR.

Opyt Agroekologicheskogo obozreniia vazhneishikh polevykh kur'tur. 1957.

462 p. (MLRA 10:5)

1. Chlen-korrespondent Akademii nauk SSSR(for Baranov) 2. Deystvitel'nyy chlen Vsesoyusnoy Akademii sel'skokhosyaystvennykh nauk im. Lenina(for Zhukovskiy)

(Field crops)

DAVITAYA, F.F.

AUTHOR:

Davitaya, F. F.

TITLE:

The Geographic Congress in Brazil (Geografichaskiy kongress v Brazilii)

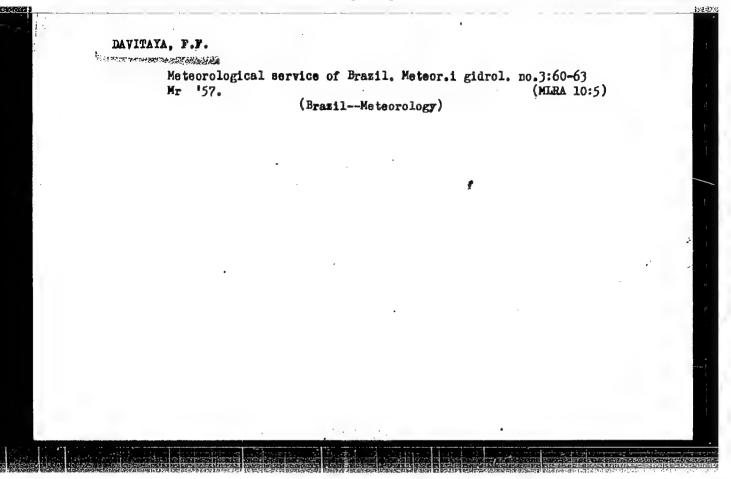
PERIODICAL:

Meteorologiya i Gidrologiya, 1957, No. 1, pp. 59-60 (U.S.S.R.)

ABSTRACT:

Minutes are presented from the 18th International Geographic Congress and the 9th General Assembly of the International Geophysics Society both held at the same time (Aug. 9 - 19, 1956) in Rio de Janeiro (Brazil). Right Mandred scientists representing 50 countries took part in the congress. The Soviet scientific delegation consisted of: I. P. Gerasimov, M. B. Gornung, F. F. Davitaya (author), P. K. Zamoriy, S. V. Kalesnik, M. Ye. Lyakhov, V. V. Pokshishevskiy, K. A. Salishchev, Yu. G. Saushkin, A. N. Formozov and P. N. Tsyst. The reports by A. Alpert (USA), V. Kauer, I. Blutgen, G. Lautensakh (W. Germany), G. Gaussen (France). N. Konchek (CSR), Zh. Trikar (France) and A. B. Bataglia (Mexico) are considered the most interesting of the total of 23 reports presented at the Congress. The exhibition of geographic maps and books is described briefly. The 9th General Assembly of the

Card 1/2



DAVITAYA, P.R., doktor sel'skokhoz.nauk, red.; SHUL'GIN, A.I., red.; SUVALOV, I.S., red.; ANTONOVA, N.M., tekhn.red.

[Problems in the agroclimatic zoning of the U.S.S.R.; a collection of articles] Voprosy agroklimaticheskogo raionirovaniia SSSR; sbornik statei. Pod red. F.F.Davitaia, A.I.Shul'gina. Moskva, Izd-vo N-va sel'skogo khoz. SSSR, 1958. 131 p. (MIRA 12:2)

1. Vsesoyumnaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina. 2. Predsedatel' sektsii agrometeorologii Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Devitaya).

(Grops and climate)

ФС 989 . R9 01

AUTHOR:

Davitaya, F.F.

SOV/10-58-5-21/28

TITLE:

The Investigation of Droughts and Dry Winds (Issledovaniye

zasukh i sukhoveyev)

PERIODICAL:

Izvestiya Akademii nauk SSSR - Seriya geograficheskaya,

1958, Nr 5, pp 131-136 (USSR)

ABSTRACT:

This is a review of two collective volumes: 1) "Dry Winds, Their Origin and Their Prevention", published by the AS, USSR in 1957, and 2) "Droughts in the USSR, Their Origin, Recurrence and Effect on the Crop", editor A.I. Rudenko, Gidro-

meteoizdat.

Card 1/1

SOV/10-59-1-2/32 Davitaya, F.F. AUTHOR:

Scientific Principles of Drought-Fighting in Dif-TITLE:

ferent Natural Zones of the USSR (Nauchnyye osnovy

bor'by s zasukhoy po prirodnym zonam SSSR)

Izvestiya Akademii Nauk SSSR, Seriya geografiche-PERIODICAL:

skaya, 1959, Nr 1, pp 7-28 (USSR)

This article is based on the content of a lecture ABSTRACT: delivered by the author at a session of the Vsesoy-

uznaya akademiya sel'skokhozyaystvennykh nauk imeni

V.I. Lenina (All-Union Academy of Agricultural Sciences imeni V.I. Lenin). The author educidates the causes of droughts and examines various geographical, agrotechnical and selective-genetical methods of combating the droughts by direct and indirect measures, i.e. by influencing the causes engendering droughts, and by adapting the economy to the evils of drought in such a way as to preclude essential losses in harvests. She considers various ways of applying such measures as fallowing

Card 1/2

SOV/10-59-1-2/32

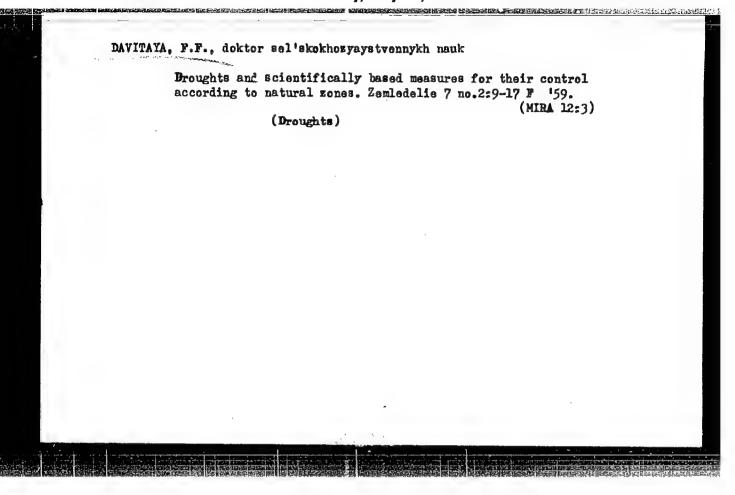
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of fields, development of field-protection by forestation, retention of snow on the fields, retention of thaw waters, irrigation, etc. The article draws the attention of all concerned to the necessity of intensification of drought-fighting, stating that droughts strike primarily in the steppe and foreststeppe regions, which comprise 90% of the total arable land of 210,000,000 hectares. There are two tables, 8 charts and 7 Soviet references.

ASSOCIATION:

Glavnoye upravleniye gidrometeosluzhby SSSR (Chief Administration of Hydrometeorological Service of the USSR)

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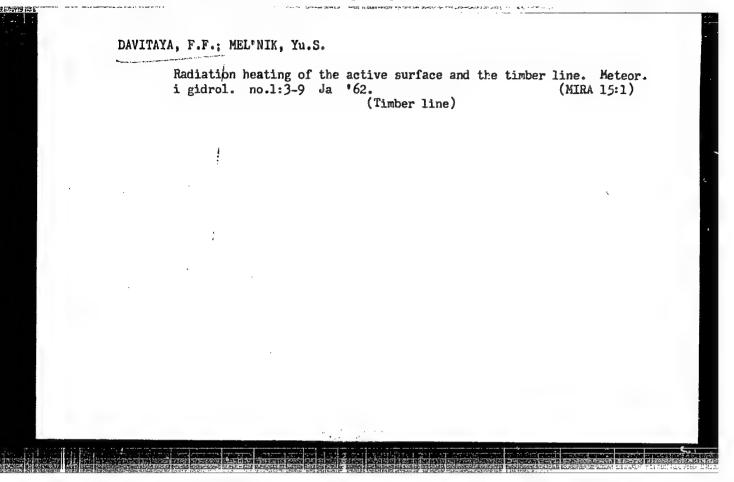
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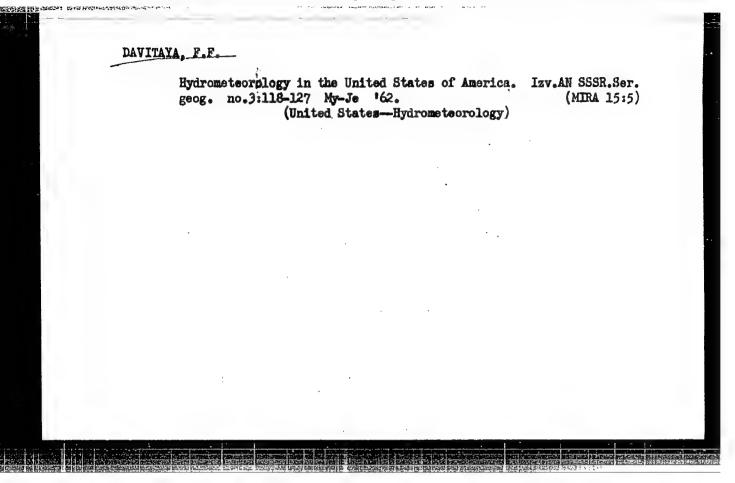
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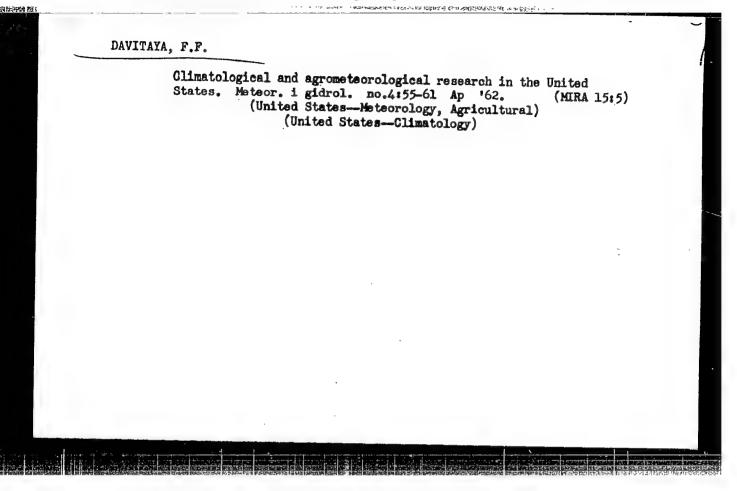
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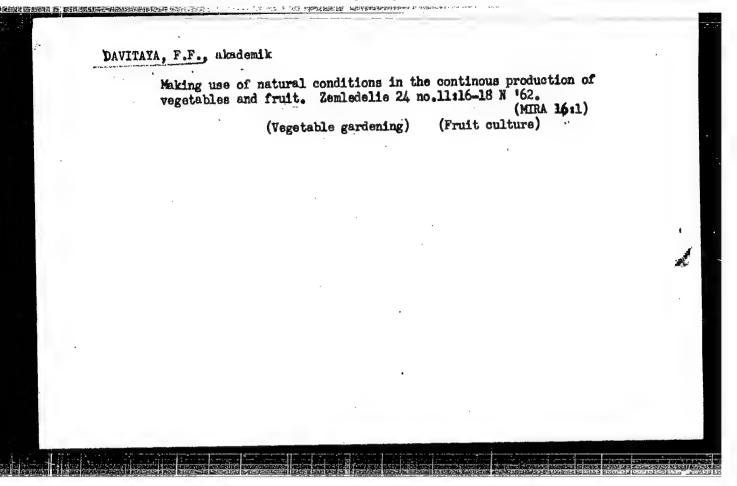




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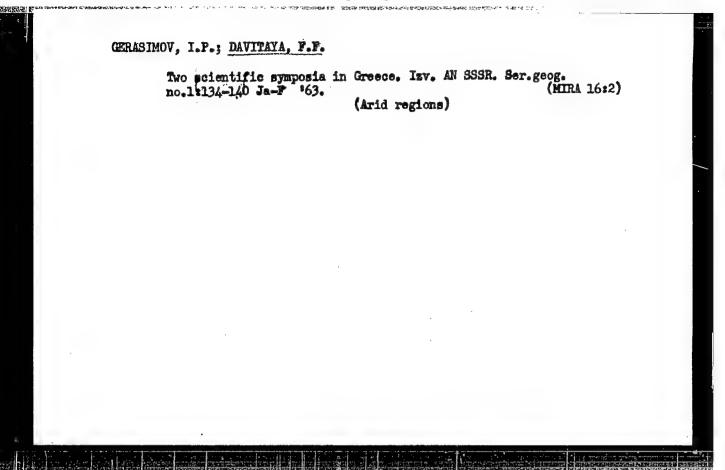
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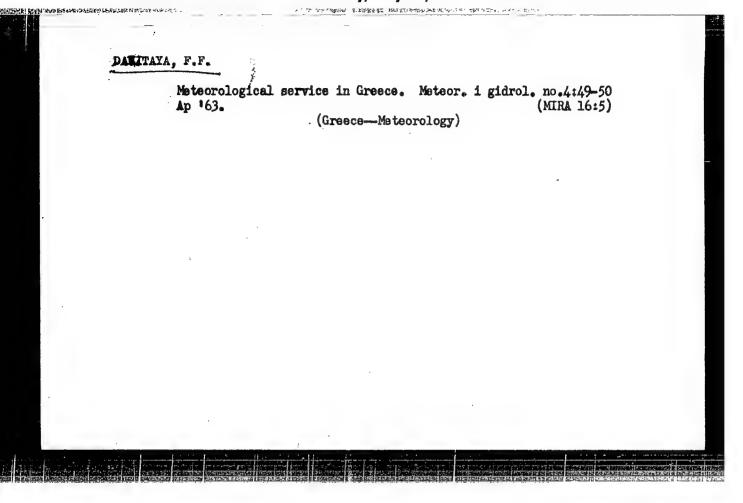


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